

OPERATION MANUAL

UFM-14DADA

Digital Audio Distribution Amplifier

UFM-18DADA

Digital Audio Distribution Amplifier

1st Edition - Rev. 2

Precautions

Important Safety Warnings

[Power]



Stop

Do not place or drop heavy or sharp-edged objects on power cord. A damaged cord can cause fire or electrical shock hazards. Regularly check power cord for excessive wear or damage to avoid possible fire / electrical hazards.

[Circuitry Access]



Stop

Do not touch any parts / circuitry with a high heat factor. Capacitors can retain enough electric charge to cause mild to serious shock, even after power is disconnected. Capacitors associated with the power supply are

especially hazardous. Avoid contact with any capacitors.



Hazard

Unit **should not** be operated or stored with cover, panels, and / or casing removed. Operating unit with circuitry exposed could result in electric shock / fire hazards or unit malfunction.

[Potential Hazards]



Caution

If abnormal smells or noises are noticed coming from the unit, turn power off immediately and disconnect power cord to avoid potentially hazardous conditions. If problems similar to above occur, contact authorized service representative **before** attempting to again operate unit.

[Consumables]



Caution

The consumables used in unit must be replaced periodically. For further details on which parts are consumables and when they should be replaced, refer to the specifications at the end of the Operation Manual. Since the service life of the consumables varies greatly depending on the environment in which they are used, they should be replaced at an early date. For details on replacing the consumables, contact your dealer.

Upon Receipt

Unpacking

UFM-14DADA/18DADA units and their accessories are fully inspected and adjusted prior to shipment. Operation can be performed immediately upon completing all required connections and operational settings.

Check your received items against the packing lists below.

ITEM	QTY	REMARKS
UFM-14DADA		1 front module
or	1	1 rear module
UFM-18DADA		
CD-ROM	1	User manual

Check

Check to ensure no damage has occurred during shipment. If damage has occurred, or items are missing, inform your supplier immediately.

Table of Contents

1. Prior to Starting	1
1-1. Welcome	1
1-2. About the UFM-14DADA/18DADA	1
1-3. About This Manual	1
2. Panel Descriptions	2
2-1. Front Panel	2
2-2. Rear Panel	3
3. Connection	5
4. Internal Settings	7
4-1. Operation Mode (SW1)	7
4-2. Other Settings (SW2)	8
5. Specifications and Dimensions	9
5-1. Specifications	9
5-2. Dimensions	10

1. Prior to Starting

1-1. Welcome

Congratulations! By purchasing UFM-14DADA/18DADA Digital Audio Distribution Amplifier you have entered the world of FOR-A and its many innovative products. Thank you for your patronage and we hope you will turn to FOR-A products again and again to satisfy your video and audio needs.

FOR-A provides a wide range of products, from basic support units to complex system controllers, which have been increasingly joined by products for computer video based systems. Whatever your needs, talk to your FOR-A representative. We will do our best to be of continuing service to you.

1-2. About the UFM-14DADA/18DADA

UFM-14DDADA/18ADA AES/EBU format digital audio distribution amplifier is specifically designed for use with FOR-A's Universal Frames UF-106B or UF-112.

Module	Mode	Distribution
	Single channel	Input 1 to four outputs
UFM-14DADA	Dual channel	Input 1 to two outputs
		Input 2 to two outputs
	Single channel	Input 1 to eight outputs
UFM-18DADA	Dualahannal	Input 1 to four outputs
	Dual channel	Input 2 to three outputs

Features

- Input signal indication on the front panel
- > The internal settings can be modified to set to single channel mode (1 way) or dual channel mode (2 ways)
- > Mute data output (48kHz, 24bit) available when no audio signal is present (the following serial number range only)

UFM-14DADA: Up to 10770159

UFM-18DADA: 10940001-10940008, 10940010-10940020, 10940027-10940036

10940038-10940040

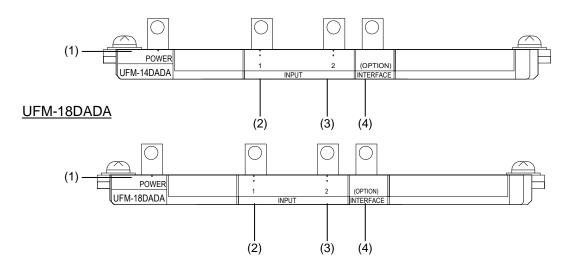
1-3. About This Manual

This manual is intended to help the user easily operate the UFM-14DADA/18DADA and make full use of its functions during operations. Before connecting or operating your unit, read this operation manual thoroughly to ensure you understand the product. After reading, it is important to keep this manual in a safe place and available for reference.

2. Panel Descriptions

2-1. Front Panel

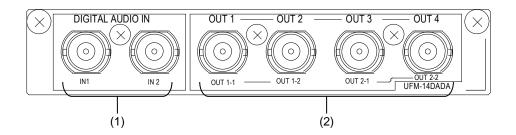
UFM-14DADA



(1)	Power indicator	The power indicator is lit whenever the supply curcuit on the board is operating properly.
(2)	INPUT 1	This indicator lights whenever the proper digital audio signal is input to IN 1.
(3)	INPUT 2	This indicator lights whenever the proper digital audio signal is input to IN 2.
(4)	INTERFACE	Not used.

2-2. Rear Panel

UFM-14DADA



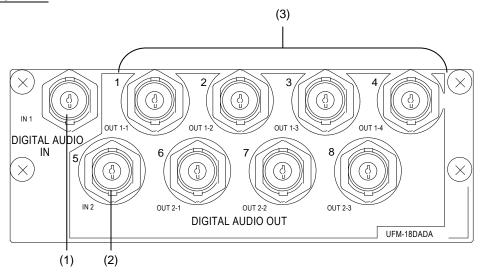
◆ Single channel mode

	(1)	DIGITAL AUDIO IN	Used for digital audio input connection.
		IN 1	IN 1 is used to input digital audio signals.
		IN 2	IN 2 is not used.
		OUT 1	Used for digital audio output connection.
	(2)	OUT 2 OUT 3 OUT 4	Digital audio signals input to IN 1 are output from OUT 1, OUT 2, OUT 3, and OUT 4 (one input to four outputs).

◆ Dual channel mode

	DIGITAL AUDIO IN	Used for digital audio input connection.	
(1)	IN 1	IN 1 and IN 2 are used to input digital audio signals.	
	IN 2		
	OUT 1-1 OUT 1-2 OUT 2-1 OUT 2-2	Used for digital audio output connection.	
(2)		Digital audio signals input to IN 1 are output from OUT1-1 and OUT1-2 (one input to two outputs).	
. ,		Digital audio signals input to IN 2 are output from OUT2-1 and OUT2-2 (one input to two outputs).	

<u>UFM-18DADA</u>



Single channel mode

(1) DIGITAL AUDIO IN IN 1		Used for digital audio input connection.
(3)	DIGITAL AUDIO OUT 1 – 8	Used for digital audio output connection. Digital audio signals input to IN 1 are output from DIGITAL AUDIO OUT 1 – 8 (one input to eight outputs).

Dual channel mode

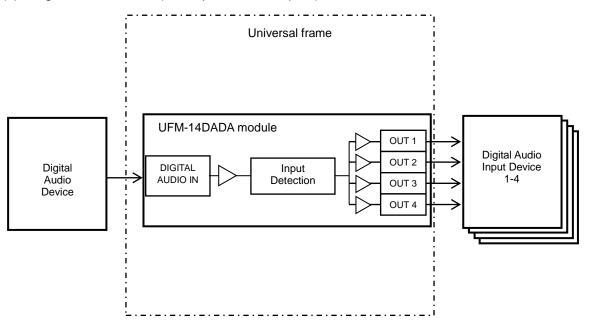
٠.	Duai	Duai channei mode		
	(1)	DIGITAL AUDIO IN	Used for digital audio input connection.	
	(1)	IN 1		
	(2)	IN 2	Used for digital audio input connection in dual channel mode.	
-	(0)	OUT 1-1	Used for digital audio output connection.	
		OUT 1-2 OUT 1-3 OUT 1-4	Digital audio signals input to IN 1 are output from OUT1-1, OUT1-2, OUT1-3, and OUT1-4 (one input to four outputs).	
	(3)	OUT 2-1 OUT 2-2 OUT 2-3	Digital audio signals input to IN 2 are output from OUT2-1, OUT2-2 and OUT2-3 (one input to three outputs).	

3. Connection

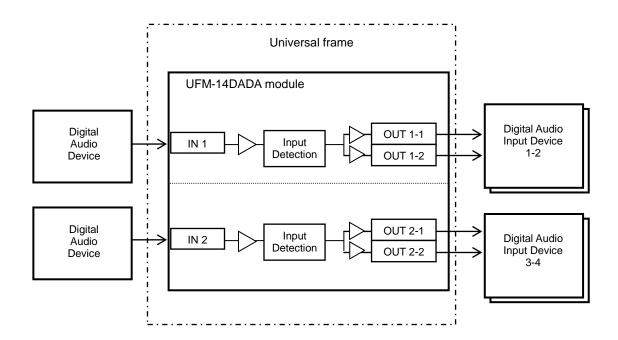
Refer to figure below for connecting the UFM-14DADA/18DADA to other devices. Note that before installing the UFM-14DADA/18DADA into the universal frame, you should thoroughly read the operation manual for the Universal Frame where you will be installing.

UFM-14DADA

(1) Single channel mode (one input to four outputs)

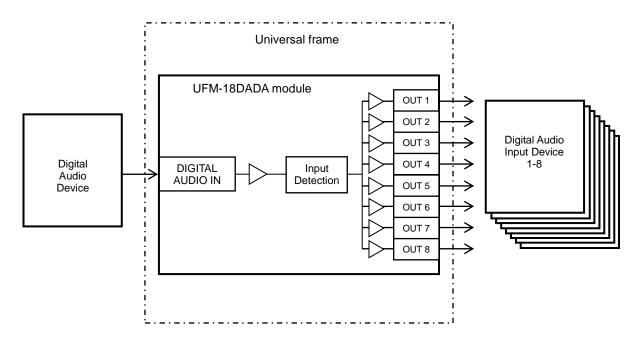


(2) Dual channel mode (one input to two outputs in two ways)

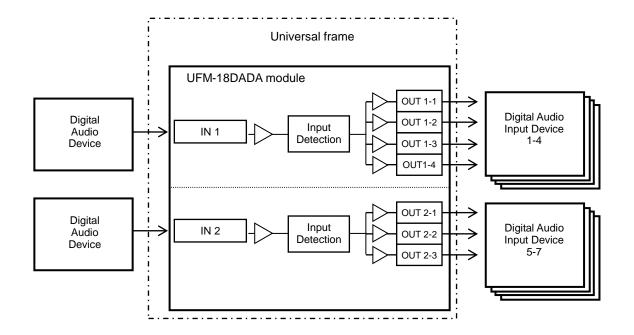


<u>UFM-18DADA</u>

(1) Single channel mode (one input to eight outputs)

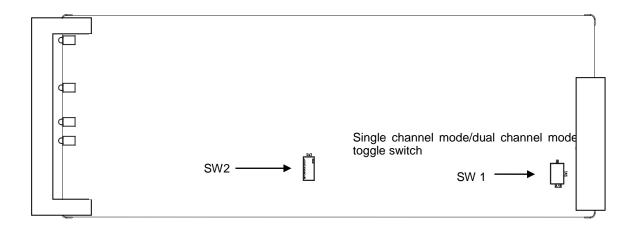


(2) Dual channel mode (one input to four outputs and one input to three outputs)



4. Internal Settings

The following settings can be made via the front module of the UFM-14DADA/18DADA. Switch settings must be made prior to installing any module to the universal frame.



4-1. Operation Mode (SW1)

SW1 is used to select between single channel mode (one way) and dual channel mode (two ways).

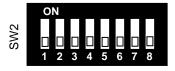


Jumper Setting	Operation Mode	
A position	Single channel mode	
A/B position	Dual channel mode	

Factory default setting is single channel mode (A position).

4-2. Other Settings (SW2)

SW2 is for maintenance use only. If these settings are changed by mistake, refer to the table below to return them to the default settings.



Switch No.	Factory Default	Description
1	OFF	For maintenance use only. Do not change this setting.
2	OFF	For maintenance use only. Do not change this setting.
3	OFF	For maintenance use only. Do not change this setting.
4	OFF	For maintenance use only. Do not change this setting.
5	OFF	For maintenance use only. Do not change this setting.
6	OFF	For maintenance use only. Do not change this setting.
7	OFF	For maintenance use only. Do not change this setting.
8	OFF	For maintenance use only. Do not change this setting.

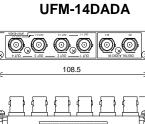
5. Specifications and Dimensions

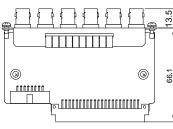
5-1. Specifications

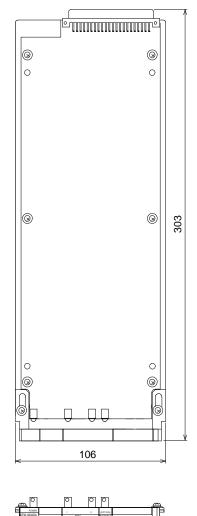
	UFM-14DADA	UFM-18DADA	
Distribution Single channel mode	Input 1 to four outputs	Input 1 to eight outputs	
Dual channel mode	Input 1 to two outputs Input 2 to two outputs	Input 1 to four outputs Input 2 to three outputs	
Audio input	Digital audio 1.0V(p-p) 75Ω BN	IC	
Audio output	Digital audio 1.0V(p-p) 75Ω BI	NC	
Digital Audio Format	AES/EBU		
Sampling Frequency	32kHz – 96kHz		
Temperature	10°C – 40°C		
Humidity	30% – 90% (no condensation)		
Power Source	+ 12VDC to + 24VDC (supplied with universal frame)		
Power Consumption	Approx.150mA Approx.160mA		
Weight	Approx. 0.5 kg		
Dimensions	106 (W) x 303 (D)mm		
Front module			
Rear module	108.5 (W) x 20 (H) x 66.1(D)mm	108.5 (W) x 40.6 (H) x 66.1(D)mm	
Required slot	1 slot 2 slots		
Consumables	No consumables are used in these products.		

5-2. Dimensions

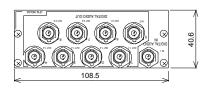
(All dimensions in mm.)

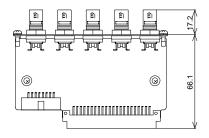


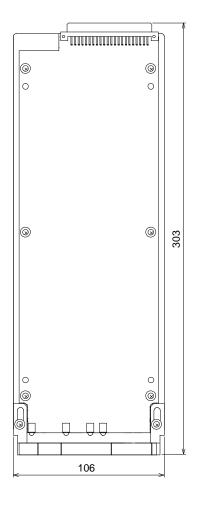




UFM-18DADA









Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.



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